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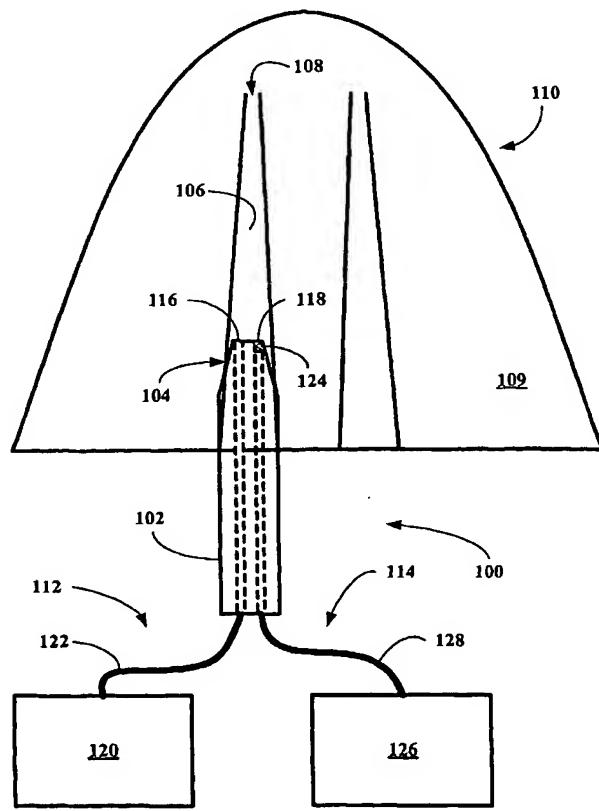
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[Continued on next page]

(54) Title: NONINVASIVE BLOOD ANALYSIS BY OPTICAL PROBING OF THE VEINS UNDER THE TONGUE



(57) Abstract: A method for analysis of blood components or parameters is disclosed where a probe (102) having an excitation outlet (116) and a response inlet (118) is placed in proximity to or in contact with a tissue of an underside of a patient's tongue over a big vein (108) in the tongue so that an excitation signal exits the outlet, produces a response which enters the inlet for detection and analysis.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/12758

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 5/00
US CL : 600/322, 323

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 600/322, 323, 310, 340, 344

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,890,619 A (HATSCHEK) 02 January 1990 (02.01.1990), Figure 4; column 6, line 25 - column 8, line 24.	1-7, 17, 18, 20-22, 25-30, 33, 40, 41, 43, 44
Y		10-14, 32, 34-37
Y	US 4,167,331 A (NIELSEN) 11 September 1979 (11.09.1979), column 8, line 5 - column 10, line 49.	10, 32
Y	US 5,494,031 A (HOEFT) 27 February 1996 (27.02.1996), see the entired document.	11-14, 34-37
X	US 5,341,805 A (STAVRIDI et al) 30 August 1994 (30.08.1994), Figure 9; column 6, lines 20 - 28.	1-4, 8, 21, 22, 25-27, 31, 44
X	US 5,384,003 A (CARO) 20 September 1994 (20.09.1994), column 4, lines 52 - 61, column 8, lines 35 - 43; claim 14.	1-4, 9, 21, 22, 25-27, 32, 44

Further documents are listed in the continuation of Box C.

See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family

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